

9000 BC

Sheep domesticated in northern  
Mesopotamia

9000 BC

Early Chinese Pottery from  
Xianrendong, and other sites

9000BC

Einkorn wheat harvested in  
northern Syria

11,000 yrs ago (9000 BC)

Bering land bridge existed  
till 11,000 yrs ago

Much later than prior studies  
had suggested.

Science News p341 July 20, 1996

9000 BC  $\rightarrow$  8000 BC

Natufian

9000 BC

Before 9000 BC the climate of large parts (most?) of Near East was colder and drier than it is today

9,000 BC → 5,000 BC  
11,000 BC → 5,000 BC

Mesolithic = Middle Stone Age

9000 BC  $\approx$  11,000 yrs ago

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Europe entered either a 3<sup>rd</sup> Interglacial  
or a 4<sup>th</sup> Interglacial



11,000 yrs ago = 9000 BC till present  
for 11,000 yrs 2000 AD.

Start/HOLOCENE period till present

Modern humans and flora  
and fauna of today.

9000 BC → 6000 BC

Human skulls unearthed in Brazil  
and ranging in age from 8,000 y.a.  
to 11,000 y.a. look more like modern  
Africans & Australian aborigines than  
the modern Asians or Native Americans.  
This finding contradicts the influential  
theory that Asians were the first  
to cross the now submerged  
Bering land bridge to North America.

around 12,000 years ago

9000 BC

Neolithic age in Crete

- 38

- 27.5

- 25

9000 BC

In northern Europe the  
open tundra gave way  
to forests of birch and pine.  
In the next 2000 yrs, were  
succeeded by forests of oak  
with hazel, elm, alder and  
humble.

9000 BC

Beginning of animal husbandry  
Probably also of agriculture

11000 yrs ago = 9000 BC

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Excavation at Quebrada  
Jaguary, Southern Peru  
shows abundant evidence of  
human activity including  
Stone Tools + 30 pieces of obsidian  
that had to be carried from  
far away.



9000 BC

End of the Ice Age; domesticated sheep  
in the North TIGRIS valley

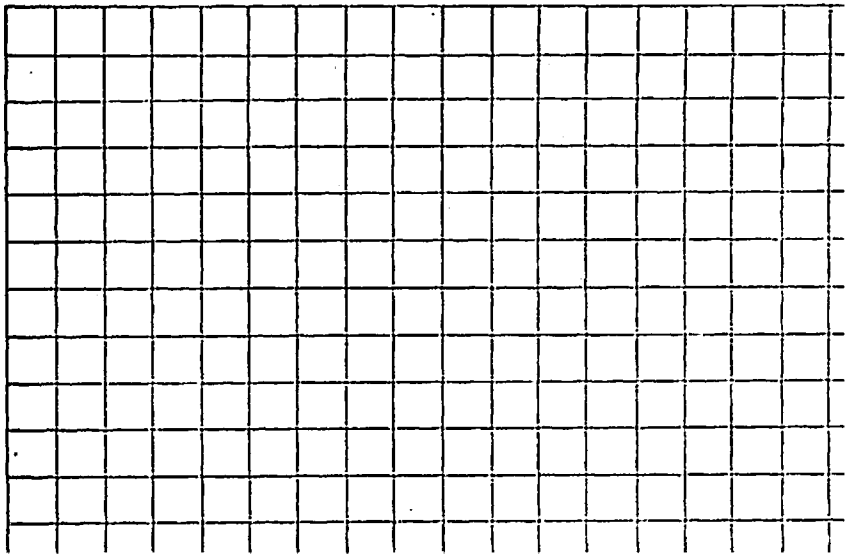
9000BC = 11,000 yrs ago

FOLSOM

Excavations in New Mexico in 1927  
revealed stone point of a spear beside  
a skeleton of the extinct long horned  
bison - evidence that American  
hunters existed 11,000 yrs ago

9000-8000 BC

A marked bone from this time  
or as late as 6500 BC found in  
ISIT-ANGO (ZAIRE) is probably  
used as a record of months  
and lunar phases



c 9000 BC

Agricultural Revolution starts in  
Near East with domestication of sheep  
and goats in Persia (IRAN) and  
AFGHANISTAN and cultivation of  
wheat in Canaan (Israel).

### Tribal Government

Very early as the family grew, the bounds of kinship were extended to embrace all distantly related members for certain purposes, chiefly for protection. The Chief was the eldest and governing member of the largest or most powerful family. Gradually other unrelated members were associated and a sort of social organization based

upon use a imagined consciousness. The  
year up with military functions. The  
chief defense behavior & CLAD are a TRIBE  
appears to have been upon the base  
or private duties of the clan and the  
military functions of the tribe. The clan  
added its internal aspects, while the  
TRIBE - an aggregation of clans - added  
differences with the outside world.

9,000 BC  
~~20,000~~ BC  $\pm$

WOODEN SAWS with rows of  
small geometrically chipped teeth  
for leather

BOAT

The Dog first appears as  
a mesolithic camp-follower



9000 BC

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End of last true ice Age.

11,000 yrs ago = 9000 BC

Meat drying: mastodons  
saber-toothed cats giant ground  
sloths and armadillos  
native horses and camels  
giant beavers

9000 BC

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JERICHO

Inside says that Archaeologists  
have uncovered layers of ruins  
showing that the site has been  
occupied off & on, since about  
9000 BC

Indian Cords

c 9000 B.C.

Beginnings of village life in  
middle East

9000 BC WILDER

Bronze Culture in Tuckerton

8930 BC  $\pm$  50

10,900 Ago

Murray Springs, Arizona (border)  
(Clovis point)

10,900 yrs ago - 8,950 BC

Younger Dryas severe recooling

10,500 yrs ago = 8,907 BC

Re-cooling



10,900 years ago = 8,900 BC

In a climatic setback beginning 10,900 years ago, and lasting for about 600 years, glaciers advanced again and bulldozed the forests that had sprung up in northern valleys. Young forests retreated in southwestern Asia too, because of drought, and grass replaced them.

8750 B.C.

NATUFIAN, ZARZIAN levels  
at SHANIDAN cave and  
open site of ZAWI CHEMI

8,700 BC

In Iran (Tepe, Aush, and Dandyach  
c 6450 BC) Goatherds and shepherds had  
twenty different symbols: spheres, cones,  
disks (some with incisions) cylinders,  
tetrahedrons, and so on. This system  
of reckoning spread throughout south-  
western Asia and to the Indus Valley  
and the upper Nile persisting with little  
change for 5000 years.

8,700 BC

Sheep domesticated

8,700 BC

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Sheep domesticated in Near East

8,700 BC

Goats and sheep were items of wealth in IRAN (then domesticated prior to this)

8,700 BC

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Sheep domesticated in Near East

8,700 BC

ACCOUNTANCY .

Iron, symbolic clay tokens



8,700 BC

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Goats were tamed.

10,200 yrs ago = 8,700 BC

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Goats & sheep were domesticated in the hills of Iran, their herders were sufficiently proprietorial about their animals to count them and pledge them, using the oldest known system of accountancy. The information technology that led to writing and numerals began with the invention of small clay tokens in the form of spheres, disks, cones and

cylanders. These appeared in Iran about  
and faded by 1900. Twenty different  
systems represented commodities such as  
sheep or measures of grain. The tokens were  
apparently pledged for payment of taxes, to be  
given back for a loan for a -  
the distribution among other members of the  
group. Yes, they enabled the holder and his  
group to plan commercial affairs, in a  
gathered 2000 km away in Anatolia, at about the  
same time. They expired with writing  
5000 years later.

10,600 yrs ago - 8600 BC

Barley domesticated.

10,600 yrs ago = 8,650 BC

ACERAMIC (Palaeos) Neolithic age

10,600 yrs ago = 8,600 BC

Gardening first became a distinctive way of life at Jericho, in the rift valley of the Jordan, where domesticated wheat & barley, different from the wild varieties, appeared 10,600 yrs ago as a product of biotechnology. The world's first town arose at Jericho, at that time, and the burghers built a wall around it, four meters high to protect their stockpile of grain from bad men.

who might serve steel than trade for  
it.

8,600 BC

Wheat domesticated.



8600 BC

NEOLITHIC period

8,600 BC

Emmer wheat - Palestine

Barley - Palestine.

8,600 BC

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Brick houses.

~~6,800~~ BC 8,600 BC

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Jericho is called the first town

10,500 yrs ago 8,500 BC

Paintings on the walls  
of Cueva de las Manos  
in Patagonia (So. Amer)  
show that human desire to  
be remembered goes back  
at least 10,500 yrs.

8500-7500 BC

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Nemrik on the upper Tigris R.

8,500 BC

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Dog domesticated in North America

10,500 yrs ago = 8,500 BC

Amerindians in South tip  
of South America.



8500 BC

Microlithic tools used by 1<sup>st</sup>  
postglacial inhabitants  
of the Sahara

Beginnings of Sahara rock art  
depicting wild and later  
domesticated animals

8500 B.C.

Earliest tentative evidence  
for the cultivation of grosses, beans,  
peppers and squash (Peru)

8,500 BC

military walls in towns

8500 → 6,500 BC      10,500 YA → 8,500 YA

## The Agricultural Transformation

Successful domestication of plants and animals ultimately allowed a larger, more secure food supply

General population growth and increasing numbers of permanent communities accompanied the introduction of agriculture. Almost every aspect of society was

altered. Family structure and the roles and  
status of women are radically altered  
by the rapidly changing life style  
imposed by domestication  
the concept of property.

8500 BC

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Dog domesticated in North America

8500 BC.

## HOMO SAPIENS SAPIENS

Modern man appeared in Europe soon after the Würm icecap had begun its slow irregular shrinkage, but for many thousands of years the climate was so continuous (sub-Arctic - mammoth, woolly rhino, bear, bison and reindeer)

A cave dwelling hunter, essentially same as Neanderthals

A greater number and specialization of  
the segments  
CLIMATE RECORD  
AUGUST 1910  
GRAVETIAN  
which last continued to 10,000 B.C.  
in Eastern Europe, The Near East.  
Replaced by 15,000 B.C. MAGDALENIAN  
in Western Europe  
Early had low barometer



8,500 BC

Palatarians of NATUFIAN  
culture were supplementing  
their meagre fare with wild  
wheat.

Flint sickles  
mortars & pestles

8400 BC

1<sup>st</sup> domesticated dog found in  
IDaho, USA

8300 BC

Around shores of Baltic, in Denmark, Southern Sweden and Southern Norway a LATE MAGDALENIAN culture had survived down to about 8300 B.C. This is called the Göttingen period. The Baltic was an ice dammed lake. Climate was Arctic to sub-arctic. Lemmings & Reindeer were plentiful.

8,300 BC to present

HOLOCENE EPOCH

8300 BE

LOOL CLEMSLE

10,300 years ago = 8,300 BC

ice age ended.

8,300 BC

PRE-BOREAL

Ice age ended; Cool

8300 BC

Glaciers retreat, many  
lowlands areas flooded.

New fauna & flora give new  
opportunities for hunter-gatherers.  
Use of microlith tools increased.

Beginning of Mesolithic period.



10,300 yrs ago = 8,300 BC

most recent ice Age ended

8300 to 6800BC

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The mesolithic has been divided into three cultural periods:

Period 1 corresponds to the Funnel period of the geologists, from 8300 to 6800 B.C. The early part was the YOLDIA Sea phase of the Baltic.

8300 - 5500 BC

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Pottery, Neolithic in Levant

Pottery was introduced at the time. At first it was handmade and very crude - the clay would contain large amounts of sand and firing was poor, with vessels almost certainly baked in the low temperatures of the domestic hearth.